Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/301/2020-21	Date	09.01.2020

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	06.01.2020
Source of Sample	Supplied by Client
Date of Testing	08.01.2020
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample		1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	0	0.00	0.00	100.00	90 – 100	*90 – 100*	90 – 100	90-100
2.36	10.6	1.06	1.06	98.94	60 – 95	*75 – 100*	85 – 100	95-100
1.18	197.8	19.78	20.84	79.16	30 – 70	*55 – 90*	75 – 100	90-100
0.6	324.4	32.44	53.28	46.72	15 – 34	*35 – 59*	60 – 79	80-100
0.3	272.4	27.24	80.52	19.48	5 – 20	*8 – 30*	12 – 40	15-50
0.15	152	15.20	95.72	4.28	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

AE-02

Approved by
Narayanswamy.B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cement/ 303/2020-21	Date	12.01.2020

PHYSICAL TEST REPORT ON CEMENT

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	08.01.2020
Source of Sample	Supplied by Client
Date of Testing	09.01.2020
Technical Referance	IS:403(Part I-VI) 1988 (Reaffirmed-2000)& IS:8112-1989

GRADATION OF CEMENT

Sl. No.	Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1	Normal consistency in %	26.8	Not specified	-
2	Initial setting time in	142.6	Shall not be less than 30 minutes	P
3	Final setting time in minutes	310.2	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) in N/mm2			
a	72+1h (3 days)	25.32	Shall not be less than 23.0 MPa	P
b	168+2h (7 days)	36.74	Shall not be less than 33.0 MPa	P
c	672+4h (28 days)	45.81	Shall not be less than 43.0 MPa	P

AE-2

A.E.E

** As furnished by the client*

P : Passes IS requirement F: Fails IS requirements

TTC : Test to be conducted

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

AE-02

Approved by
Narayanswamy B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/316/2020-21	Date	02.02.2020

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	01.02.2020
Date of Sample Received	01.02.2020
Source of Sample	Supplied by the Client
Date of Testing	01.02.2020
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
AE-2								
1	A.E.E Drains(raft)	28.01.2020	01.02.2020	03 Days	22500.00	8036	432.2	19.21
2		28.01.2021	01.02.2021		22500.00	8012	421.6	18.74
3		28.01.2022	01.02.2022		22500.00	7998	436.2	19.39

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/317/2020-21	Date	28.02.2020

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd , Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	27.02.2020
Date of Sample Received	27.02.2020
Source of Sample	Supplied by the Client
Date of Testing	27.02.2020
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
AE-2								
1	A.E.E Drains(raft)	28.01.2020	27.02.2020	28 Days	22500.00	8124	572.3	25.44
2		28.01.2021	27.02.2021		22500.00	7989	540.5	24.02
3		28.01.2022	27.02.2022		22500.00	8030	546.3	24.28

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

End of Report

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/307/2020-21	Date	12.02.2020

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	11.02.2020
Date of Sample Received	11.02.2020
Source of Sample	Supplied by the Client
Date of Testing	11.02.2020
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load in KN	Compressive Strength in Nmm²
1	Drains	03.02.2020	11.02.2020	7 Days	22500.00	8238	410.8	18.26
2		03.02.2020	11.02.2020		22500.00	8426	412.6	18.34
3		03.02.2020	11.02.2020		22500.00	8326	416.8	18.52

AE-2 A.E.E

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

AE-02

Approved by
Narayanswamy.B

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/308/2020-21	Date	04.03.2020

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK D/W O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	03.03.2020
Date of Sample Received	03.03.2020
Source of Sample	Supplied by the Client
Date of Testing	03.03.2020
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	Drains	03.02.2020	03.03.2020	28 Days	22500.00	8024	565.8	25.15
2		03.02.2020	03.03.2020		22500.00	7998	545.8	24.26
		03.02.2020	03.03.2020		22500.00	8120	541.7	24.08

AE-2

A.E.E

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

AE-02

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC036137 GST No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cube/B18/2020-21	Date	19.02.2020

TEST REPORTS OF CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	12.02.2020
Date of Sample Received	12.02.2020
Source of Sample	Supplied by the Client
Date of Testing	12.02.2020
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	Culverts(raft)	08.02.2020	12.02.2020	03 Days	22500.00	8036	410.6	18.25
2		08.02.2021	12.02.2021		22500.00	7999	411.9	18.31
3		08.02.2022	12.02.2022		22500.00	8156	421.6	18.74

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS 516-1959

For Karnataka Material Test House Pvt Ltd.,

A.E.E

Prepared & checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No. U74210KA2004PTC035157 GST No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No: KMTH/Cubes/310/2020-21

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	16.03.2020
Date of Sample Received	16.03.2021
Source of Sample	Supplied by the Client
Date of Testing	16.03.2021
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	Drains	15.02.2020	16.03.2020	28 Days	22500.00	8036	568.6	25.27
2		15.02.2020	16.03.2020		22500.00	7999	546.2	24.28
3		15.02.2020	16.03.2020		22500.00	8156	540.7	24.03

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS 516-1959

AE-2

For Karnataka Material Test House Pvt Ltd.,

A.E.E

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

AE-02

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCKerbs/311/2020-21	Date	08.06.2020

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No 02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	05.06.2020
Date of Sample Received	05.06.2020
Source of Sample	Supplied by the Client
Number of Specimens*	3 No's Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Date of Testing	05.06.2020

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq mm	Load KN	Comp. Strength N/Sq mm	C.F H/D x 0.11 + 0.78	C.C.F N/Sq mm	E.C.S.C N/Sq mm	Avg. N/Sq mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	94.79	160.20	1.69	7053	131.6	18.66	0.97	18.02	22.53	22	2.6380	0.00113	2334.63
2	S-02	94.95	162.04	1.71	7077	128.7	18.19	0.97	17.60	22.00		2.7540	0.00115	2401.50
3	S-03	95.01	162.80	1.71	7086	130.0	18.35	0.97	17.77	22.21		2.6120	0.00115	2264.18

* To be furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

A.E.E

Prepared & Checked by
Nagaraj K S

AE-02

Approved by
Narayanswamy B

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCKerbs/321/2020-21	Date	25.05.2020

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	20.05.2020
Date of Sample Received	20.05.2020
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Slabs
Size & Shape of Sample	slab Length -920mm, Height-100mm,Width600mm
Date of Testing	23.05.2020

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq mm	Load KN	Comp. Strength N/Sq mm	C.F H/D x 0.11 + 0.78	C.C.F N/Sq mm	E.C.S.C N/Sq mm	Avg. N/Sq mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
100mm Slab														
1	S-01	95.36	99.63	1.04	7138	137.6	19.28	0.89	17.25	21.56	21	2.5900	0.00071	3641.73
2	S-02	94.89	98.78	1.04	7068	136.4	19.30	0.89	17.26	21.58		2.9800	0.00070	4268.12
3	S-03	95.68	99.58	1.04	7186	133.9	18.63	0.89	16.67	20.83		2.5400	0.00072	3549.36

*As furnished by the Client

Note: A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

A.E.E

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

.....End of Report.....

Note: 1)This reports is not to be reproduced except in full without our prior permission in writing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Bitumen Binder/322/2020-21	Date	13.07.2020

TEST REPORT ON BITUMEN BINDER CONTENT

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	12.07.2020
Source of Sample	-
Date of Testing	12.07.2020
Technical Referance	*MORTH FIFTH REVISION*

Bitumen Binder Content

Sl. No.	Sample Identification	Wt. of Sample in gm	Wt of Dry Aggregates after extraction in gm	Wt. of Bitumen in gm	Percentage of Bitumen in %	Average Percentage of Bitumen in %	Permissible Limits	Remarks
1	Sample-01	1000	945.60	54.40	5.44	5.43	Shall not be less then 5.0 to 7.0%	Sample conforms to the requirements
2	Sample-02	1000	949.70	50.30	5.03			
3	Sample-03	1000	946.30	53.70	5.37			
4	Sample-04	1000	945.80	54.20	5.42			
5	Sample-05	1000	941.10	58.90	5.89			

** As furnished by the client*

Remarks : Sample confirms to Morth specification fifth revison Clause 507

For Karnataka Material Test House Pvt ltd ,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

End of Report

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Gradation /315/2020-21	Date	15.07.2020

GRADATION TEST REPORT ON BITUMEN MACADAM

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
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Name of Project & Address	Construction of RCC Drains And CulVerts at Kenchenahalli And Nagenahalli Layout ISRO Layout Harohalli ans Surrounding areas in Chowdeshwari Ward No.02, of Yelahanka Sub division.
Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	12.07.2020
Source of Sample	
Date of Testing	13.07.2020
Technical Referance	*MORTH FIFTH REVISION*

Gradation of Aggregates after extraction

Sample Taken		600	Grams			
I S Sieve	Wt.retained (gms)	% Retained	Cumulative %	% Passing	Percent passing, by weight	
					Grade-I	*Grade-II*
26.5	0	0	0	100	-	*100*
19	10.20	1.70	1.70	98.3	100	*90-100*
13.2	186.40	31.07	32.77	67.23	90-100	*45-70*
9.5	165.40	27.57	60.34	39.66	50-75	*25-60*
4.75	82.60	13.77	74.11	25.89	20-28	*20-28*
2.36	42.20	7.03	81.14	18.86	16-24	*16-24*
1.18	21.20	3.53	84.67	15.33	15-21	*15-21*
0.6	16.80	2.80	87.47	12.53	12--18	*12--18*
0.3	5.86	0.98	88.45	11.55	10--20	*10--20*
0.75	3.90	0.65	89.10	10.9	8--12	*8--12*

as furnished by the client

Remarks Confirm to Grade -II as per Morth Specification fifth revision clause 507.0

For Karnataka Material Test House Pvt ltd.,

A.E.E

Prepared & Checked by

Nagaraj K S

Approved by

Narayanswamy B

AE-01

.....End of Report.....

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Gradation /323/2020-21	Date	15.07.2020

GRADATION TEST REPORT ON BITUMEN MACADAM

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director M/s Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
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Work Order No	BBMP/EE/YNK.D/W.O/229/2019-20
Job Code No	002-20-000035
Clients Letter Dated	12.07.2020
Source of Sample	-
Date of Testing	13.07.2020
Technical Referance	*MORTH FIFTH REVISION*

Gradation of Aggregates after extraction

Sample Taken		600	Grams			
I S Sieve	Wt.retained (gms)	% Retained	Cumulative %	% Passing	Percent passing, by weight	
					Grade-I	*Grade-II*
26.5	0	0	0	100	-	*100*
19	11.60	1.93	1.93	98.07	100	*90-100*
13.2	183.90	30.65	32.58	67.42	90-100	*45-70*
9.5	160.50	26.75	59.33	40.67	50-75	*25-60*
4.75	85.30	14.22	73.55	26.45	20-28	*20-28*
2.36	41.90	6.98	80.53	19.47	16-24	*16-24*
1.18	19.30	3.22	83.75	16.25	15-21	*15-21*
0.6	18.50	3.08	86.83	13.17	12--18	*12--18*
0.3	6.56	1.09	87.92	12.08	10--20	*10--20*
0.75	3.65	0.61	88.53	11.47	8--12	*8--12*

AE-2

as furnished by the client

Remarks Confirm to Grade -II as per Morth Specification fifth revision clause 507.0

For Karnataka Material Test House Pvt ltd.,

A.E.E

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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